

Classifying Jobs Listings as Real or Fake Using Semi-Supervised Machine Learning

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Motivation



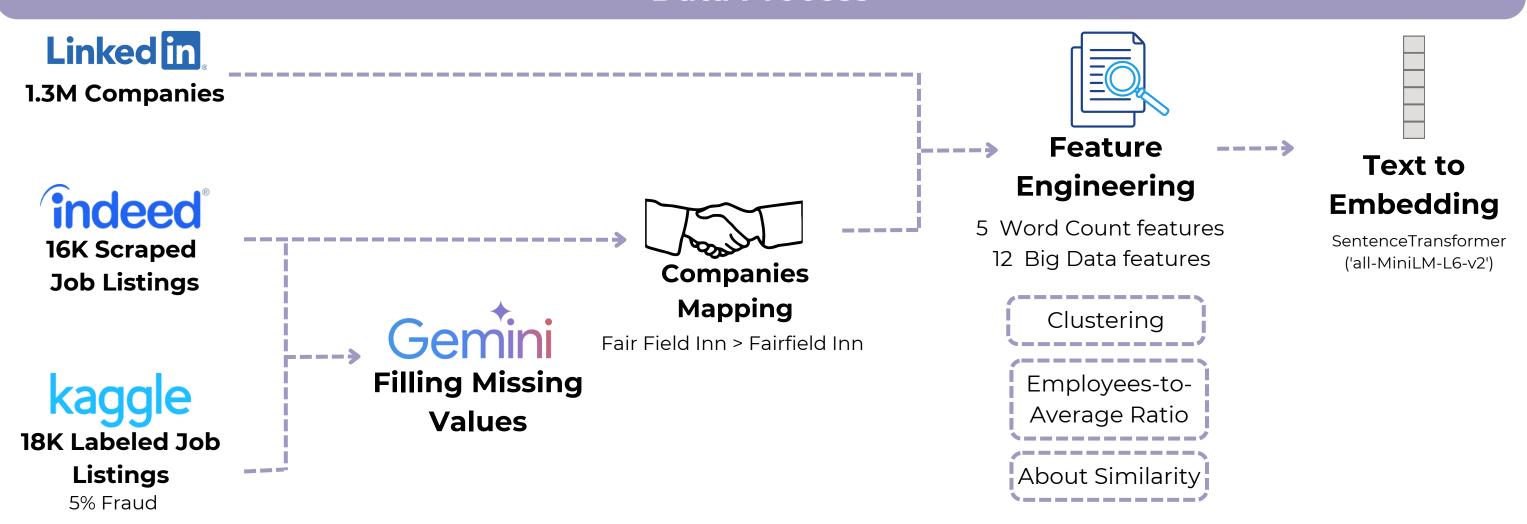




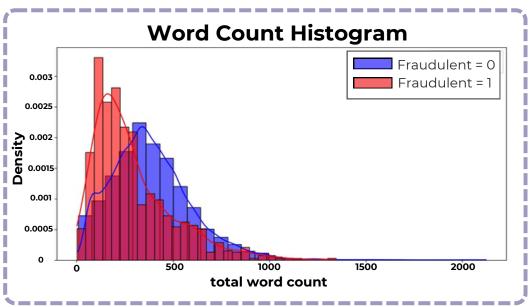
Utilize Big data and ML to detect fake job listings

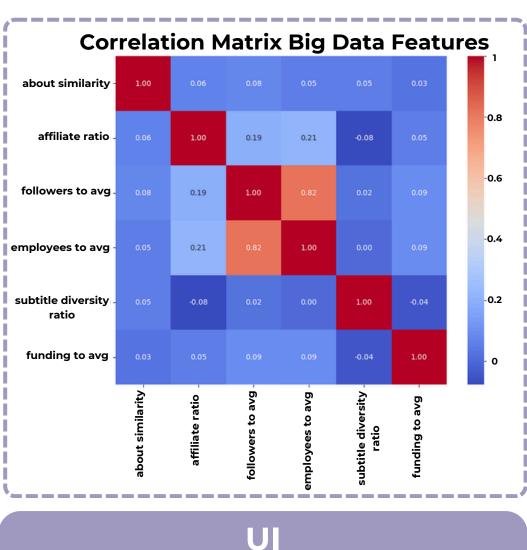
Goal

Data Process



Data Analysis





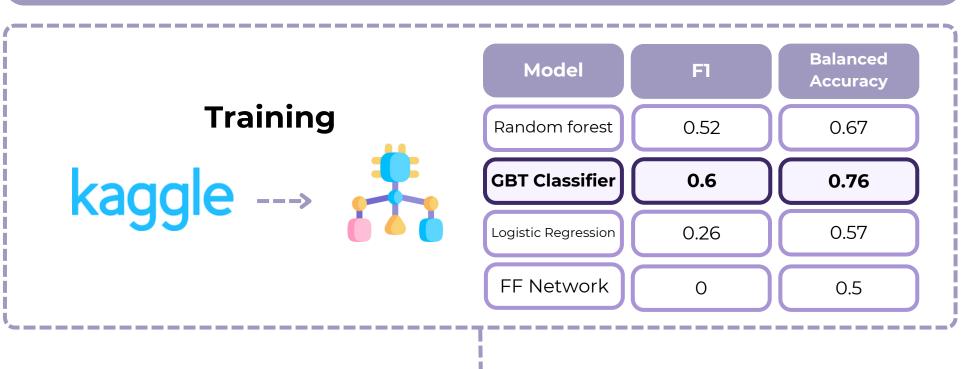
Streamlit

Upon selecting a job listing, users can view information about the job, along with Method 4's model's prediction of whether the job is fraudulent or legitimate.

Conclusions

Big Data feature engineering and semisupervised learning improve job fraud classification, improving transparency in real-world scenarios.

Modeling



Text Embedding - dim = 384

PCA(Text Embedding) - dim = 50

Word Count Features - dim 5

Apply High-Confidence Pseudo-labeling to Scraped Data

